

**H0004743-US****Abstract**

A homogenizer for collimated light limits the angular distribution of the light by passing the light through a mild diffuser followed by a slab light guide which has top and bottom surfaces covered with optical constraining layers and optical absorbing layers where the optical absorbing layer has a higher refractive index than the optical constraining layer and the optical constraining layer has a lower refractive index than the slab light guide.